AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (canceled).
- 2. (currently amended): A friction force measurement apparatus according to claim 15, wherein a vibration input unit in which vibration of said vibration detector is input is directly contacted with said fixed member.
- 3. (currently amended): A friction force measurement apparatus according to claim 15, wherein a low pass filter having a cutoff frequency of not less than 50 kHz is disposed between said vibration detector and said calculation device.
- 4. (previously presented): A friction force measurement apparatus according to claim 2, wherein a low pass filter having a cutoff frequency of not less than 50 kHz is disposed between said vibration detector and said calculation device.
- 5. (currently amended): A friction force measurement apparatus according to claim 15, wherein a recording device records the friction force calculated by said calculation device and records a time associated with the friction force calculated by said calculation device.

- 6. (previously presented): A friction force measurement apparatus according to claim 2, wherein a recording device records the friction force calculated by said calculation device and records a time associated with the friction force calculated by said calculation device.
- 7. (currently amended): A friction force measurement apparatus according to claim 318, wherein a recording device records the friction force calculated by said calculation device and records a time associated with the friction force calculated by said calculation device.
- 8. (currently amended): A friction force measurement apparatus according to claim 15, wherein said fixed member is a magnetic head.
- 9. (currently amended): A friction force measurement apparatus according to claim <u>18</u>2, wherein said fixed member is a magnetic head.
- 10. (canceled).
- 11. (currently amended): A friction force measurement apparatus according to claim 15, wherein said vibration detector is an acoustic emission sensor.
- 12. (currently amended): A friction force measurement apparatus according to claim <u>182</u>, wherein said vibration detector is an acoustic emission sensor.

13-14. (canceled).

15. (currently amended): A friction force measurement apparatus which measures friction force between a fixed member fixed on a main body of a magnetic tape drive and a magnetic tape abrading the fixed member, the apparatus comprising:

a vibration detector which is joined with said fixed member and detects a vibration in abrasion of said magnetic tape with said fixed member; and

a calculation device which calculates the friction force between said fixed member and said magnetic tape based on a signal from said vibration detector, A friction force measurement apparatus according to claim 1,

wherein said fixed member is a guide portion regulating a width direction of a magnetic tape.

16-17. (canceled).

18. (currently amended): A friction force measurement apparatus which measures friction force between a fixed member fixed on a main body of a magnetic tape drive and a magnetic tape abrading the fixed member, the apparatus comprising:

a vibration detector which is joined with said fixed member and detects a vibration in abrasion of said magnetic tape with said fixed member; and

a calculation device which calculates the friction force between said fixed member and said magnetic tape based on a signal from said vibration detector, A friction force measurement apparatus according to claim 1,

wherein said vibration detector is pressed into a head of a screw.

19-20. (canceled).

- 21. (new): A friction force measurement apparatus according to claim 2, wherein said vibration detector is pressed into a head of a screw.
- 22. (new): A friction force measurement apparatus according to claim 3, wherein said vibration detector is pressed into a head of a screw.
- 23. (new): A friction force measurement apparatus according to claim 18, wherein a vibration input unit in which vibration of said vibration detector is input is directly contacted with said fixed member.
- 24. (new): A friction force measurement apparatus according to claim 18, wherein a low pass filter having a cutoff frequency of not less than 50 kHz is disposed between said vibration detector and said calculation device.

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25. (new): A friction force measurement apparatus according to claim 23, wherein said fixed member is a guide portion regulating a width direction of a magnetic tape.

26. (new): A friction force measurement apparatus according to claim 24, wherein said fixed member is a guide portion regulating a width direction of a magnetic tape.

27. (new): A friction force measurement apparatus according to claim 23, wherein a low pass filter having a cutoff frequency of not less than 50 kHz is disposed between said vibration detector and said calculation device.